

Gambel

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**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/477,989B**

#191644
Re-Ins.

DATE: 01/14/99

TIME: 18:10:29

INPUT SET: S27299.raw

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/477,989B**

DATE: 01/14/99
TIME: 18:10:30

INPUT SET: S27299.raw

47 (ix) TELECOMMUNICATION INFORMATION:
48 (A) TELEPHONE: 201-994-1700
49 (B) TELEFAX: 201-994-1744
50
51 (2) INFORMATION FOR SEQ ID NO: 1:
52 (i) SEQUENCE CHARACTERISTICS:
53 (A) LENGTH: 32 bases
54 (B) TYPE: nucleic acid
55 (C) STRANDEDNESS: single
56 (D) TOPOLOGY: linear
57 (ii) MOLECULE TYPE: oligonucleotide
58
59 (ix) FEATURE:
60 (A) NAME/KEY: PCR primer
61 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
62 AACCCGGGGA CATTCAAGCTG ACCCAGTCTC AA
63
64 (2) INFORMATION FOR SEQ ID NO: 2:
65 (i) SEQUENCE CHARACTERISTICS:
66 (A) LENGTH: 29 bases
67 (B) TYPE: nucleic acid
68 (C) STRANDEDNESS: single
69 (D) TOPOLOGY: linear
70 (ii) MOLECULE TYPE: oligonucleotide
71
72 (ix) FEATURE:
73 (A) NAME/KEY: PCR primer
74 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
75 CAGTCGACTA CAGTTGGTGC AGCATCAGC
76
77 (2) INFORMATION FOR SEQ ID NO: 3:
78 (i) SEQUENCE CHARACTERISTICS:
79 (A) LENGTH: 31 bases
80 (B) TYPE: nucleic acid
81 (C) STRANDEDNESS: single
82 (D) TOPOLOGY: linear
83 (ii) MOLECULE TYPE: oligonucleotide
84
85 (ix) FEATURE:
86 (A) NAME/KEY: PCR primer
87 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
88 AACCCGGGGA GGTCCAGCTG CAGCAGTCTG G
89
90 (2) INFORMATION FOR SEQ ID NO: 4:
91 (i) SEQUENCE CHARACTERISTICS:
92 (A) LENGTH: 27 bases
93 (B) TYPE: nucleic acid
94 (C) STRANDEDNESS: single
95 (D) TOPOLOGY: linear
96 (ii) MOLECULE TYPE: oligonucleotide
97
98 (ix) FEATURE:

**RAW SEQUENCE LISTING
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100 (A) NAME/KEY: PCR primer
101 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
102 AAGTCGACCC AGTGGATAGA CCGATGG 27

103
104 (2) INFORMATION FOR SEQ ID NO: 5:
105 (i) SEQUENCE CHARACTERISTICS:
106 (A) LENGTH: 22 bases
107 (B) TYPE: nucleic acid
108 (C) STRANDEDNESS: single
109 (D) TOPOLOGY: linear
110 (ii) MOLECULE TYPE: oligonucleotide
111
112 (ix) FEATURE:
113 (A) NAME/KEY: PCR primer
114 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
115 CCGCAAGCTT CATGGGATGG AG 22

116
117 (2) INFORMATION FOR SEQ ID NO: 6:
118 (i) SEQUENCE CHARACTERISTICS:
119 (A) LENGTH: 27 bases
120 (B) TYPE: nucleic acid
121 (C) STRANDEDNESS: single
122 (D) TOPOLOGY: linear
123 (ii) MOLECULE TYPE: oligonucleotide
124
125 (ix) FEATURE:
126 (A) NAME/KEY: PCR primer
127 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
128 GCTGCTTGCG GACTGGGTCA GCTGGAT 27

129
130 (2) INFORMATION FOR SEQ ID NO: 7:
131 (i) SEQUENCE CHARACTERISTICS:
132 (A) LENGTH: 21 bases
133 (B) TYPE: nucleic acid
134 (C) STRANDEDNESS: single
135 (D) TOPOLOGY: linear
136 (ii) MOLECULE TYPE: oligonucleotide
137
138 (ix) FEATURE:
139 (A) NAME/KEY: PCR primer
140 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
141 ATTCAGCTGA CCCAGTCTCC A 21

142
143 (2) INFORMATION FOR SEQ ID NO: 8:
144 (i) SEQUENCE CHARACTERISTICS:
145 (A) LENGTH: 58 bases
146 (B) TYPE: nucleic acid
147 (C) STRANDEDNESS: single
148 (D) TOPOLOGY: linear
149 (ii) MOLECULE TYPE: oligonucleotide
150
151 (ix) FEATURE:
152 (A) NAME/KEY: PCR primer

RAW SEQUENCE LISTING
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153 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
154 GATCGGATCC ACCTGAGGAA GCAAAGTTA AATTCTACTC ACGTTTCAGT TCCAGCTT58
155
156 (2) INFORMATION FOR SEQ ID NO: 9:
157 (i) SEQUENCE CHARACTERISTICS:
158 (A) LENGTH: 31 bases
159 (B) TYPE: nucleic acid
160 (C) STRANDEDNESS: single
161 (D) TOPOLOGY: linear
162 (ii) MOLECULE TYPE: oligonucleotide
163
164 (ix) FEATURE:
165 (A) NAME/KEY: PCR primer
166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
167 TCTCCTGCAG TGGGACCTCG GAGTGGACAC C 31
168
169 (2) INFORMATION FOR SEQ ID NO: 10:
170 (i) SEQUENCE CHARACTERISTICS:
171 (A) LENGTH: 21 bases
172 (B) TYPE: nucleic acid
173 (C) STRANDEDNESS: single
174 (D) TOPOLOGY: linear
175 (ii) MOLECULE TYPE: oligonucleotide
176
177 (ix) FEATURE:
178 (A) NAME/KEY: PCR primer
179 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
180 GAGGTCCAGC TGCAGCAGTC T 21
181
182 (2) INFORMATION FOR SEQ ID NO: 11:
183 (i) SEQUENCE CHARACTERISTICS:
184 (A) LENGTH: 24 bases
185 (B) TYPE: nucleic acid
186 (C) STRANDEDNESS: single
187 (D) TOPOLOGY: linear
188 (ii) MOLECULE TYPE: oligonucleotide
189
190 (ix) FEATURE:
191 (A) NAME/KEY: PCR primer
192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
193 CGATGTATCA GCTGTCAGTG TGGC 24
194
195 (2) INFORMATION FOR SEQ ID NO: 12:
196 (i) SEQUENCE CHARACTERISTICS:
197 (A) LENGTH: 24 bases
198 (B) TYPE: nucleic acid
199 (C) STRANDEDNESS: single
200 (D) TOPOLOGY: linear
201 (ii) MOLECULE TYPE: oligonucleotide
202
203 (ix) FEATURE:
204 (A) NAME/KEY: PCR primer
205 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

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206 GCCACACTGA CAGCTGATAC ATCG

207

(2) INFORMATION FOR SEQ ID NO: 13:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 21 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: oligonucleotide

215

(ix) FEATURE:

(A) NAME/KEY: PCR primer

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

219 CAGAGTGCCT TGGCCCCAGT A

21

220

(2) INFORMATION FOR SEQ ID NO: 14:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 27 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: oligonucleotide

228

(ix) FEATURE:

(A) NAME/KEY: PCR primer

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

232 TACTGGGCC AAGGCACCT CGTCACA

27

233

(2) INFORMATION FOR SEQ ID NO: 15:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 25 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: oligonucleotide

241

(ix) FEATURE:

(A) NAME/KEY: PCR primer

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

245 GATCGGATCC CTATAAAATCT CTGGC

25

246

(2) INFORMATION FOR SEQ ID NO: 16:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 43 bases

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: oligonucleotide

254

(ix) FEATURE:

(A) NAME/KEY: PCR primer

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

258 TTGGATCCGC GGCCGCGTCG ACTACAGTTG GTGCAGCATC AGC

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SEQUENCE VERIFICATION REPORT
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Original Text